## CLAIMS

Comment: Use the style "claim number, cn" for the paragraphs with claims numbers.

Use "body text first indent2, btfi2" for paragraphs without claim numbers.

## WHAT IS CLAIMED IS:

- 1. A coating material applicator comprising: an applicator body; a rotary atomizing head at one end of said body; and air passages providing a natural flow of ambient air to a low pressure area behind said rotary atomizing head, each said passage having a first opening remote from said head exposed to ambient air and a second opening behind said head in the low pressure area created by rotation of said head.
- 2. The applicator of claim 1, including a shroud on said body behind said head, and said passages being disposed in said shroud.
- The applicator of claim 2, said shroud having a side surface and an end surface, and each said passage having an opening thereto in each said surface.
- 4. The applicator of claim 3, said openings in said side surface being disposed near an opposite end of said shroud from said end surface.
- 5. The applicator of claim 3, said passages angling inwardly from said side surface to said end surface.
- The applicator of claim 5, said openings in said side surface being 6. disposed near an opposite end of said shroud from said end surface.
  - 7. The applicator of claim 6, said shroud being frustoconical.

8. A shroud for an applicator having a rotary atomizing head, said shroud comprising:

a side wall having a side surface;

an end wall at one end of said side wall, said end wall having an end surface and defining a hole therethrough for receiving a rotary component of said atomizing head; and

at least one passage defined through said side wall, each said passage having a first opening thereto in said side surface exposed to ambient air, and a second opening thereto in said end surface, said second opening being disposed near said hole.

- 9. The shroud of claim 8, said openings in said side surface being disposed near an opposite end of said side wall from said end wall.
- 10. The shroud of claim 8, said at least one passage angling inwardly from said side surface to said end surface.
- 11. The shroud of claim 10, said openings in said side surface being disposed near an opposite end of said side wall from said end wall.
  - 12. The shroud of claim 11, said shroud body being frustoconical.
- 13. The shroud of claim 12, said end wall defining a pattern of shaping air nozzles therein, and said second openings being disposed in said end wall between said hole and said pattern of shaping air nozzles.

- 14. The shroud of claim 8, said end wall defining a pattern of shaping air nozzles therein, and said second openings being disposed in said end wall between said hole and said pattern of shaping air nozzles.
  - 15. The shroud of claim 8, said shroud body being frustoconical.
- 16. A method of operating a rotary atomizing applicator comprising steps of:

rotating a rotary atomizing head at high speed to atomizing a coating material supplied thereto, and thereby creating an area of low pressure behind the rotating head; and

directing a natural flow of ambient air through passages in said applicator having first openings exposed to ambient air and second openings behind the rotary atomizing head.

- 17. The method of claim 16, including providing a shroud behind the rotary atomizing head with the passages in the shroud, and directing the natural flow of air through the shroud.
- 18. The method of claim 17, including drawing ambient air into the passages through openings in a side surface of the shroud.
- 19. The method of claim of claim 18, including directing ambient air from the passages to a radially inner area behind the rotating atomizing head.
- 20. The method of claim of claim 16, including directing ambient air from the passages to a radially inner area behind the rotating atomizing head.